RTF PROCEDURE	CDMS	27 Augu	st 1998
S1-S6 OPERATION: BOAR	RD #	STATUS	DATE
S1-S6 TESTING SET-UP:			
The Operational test will utilize the function generator.	e RTF section	of the Breakout Box (Bo	OB) and a
The function generator will be continued that test.	nected to the A	Aux input on the BOB fo	or each section of
The testing will include a bandwid	th, offset, nois	e, and fidelity test.	
Making measurements: Measurement at 1M ohm DC. Measurements from input at 50 ohms DC.		-	
1. Initial Input Settings:		Waveform:	Sine wave
-		Amplitude:	2V(p-p)
		Frequency:	80 kHz
2. Functionality Test:			
Select S1-S6 on BOB.			
Look at each output from RTF boar OUTPUT SHOULD = INPUT	-	using the oscilloscope.	

3. Measure Bandwidth:

Increase input frequency to 250 kHz.

Output should track input with no phase lag.

Channel	Does gain = 1?	At 250 kHz is there a phase shift > 400 nSec?
S1		
S2		
S3		
S4		
S5		
S6		

4. Offset / Noise / Fidelity:

RTF PROCEDURE	CDMS	27 Au	ıgust 1998	
S1-S6 OPERATION: BOAR	RD #	STATUS	DATE	

Ground Aux input -

Ensure that the scope ground is well known.

Now run through each channel to find the offset and noise.

Output should be < 10 mV of white noise.

The offset should be less than 5 mV. Find the offset by using your reference and the center of the fuzz.

Channel	Offset(mV)	Nosie(mV)
S1		
S2		
S 3		
S4		
S5		
S6		

Fidelity-

Input 5V DC (from test points on the front panel of the CDMS power supply). To the Aux input.

Use a volt meter with resolution to .001V to measure output.. Output should = Input to within ± -0.01 V.

Channel	Output(V)
S1	
S2	
S3	
S4	
S5	
S6	